FIG. 1

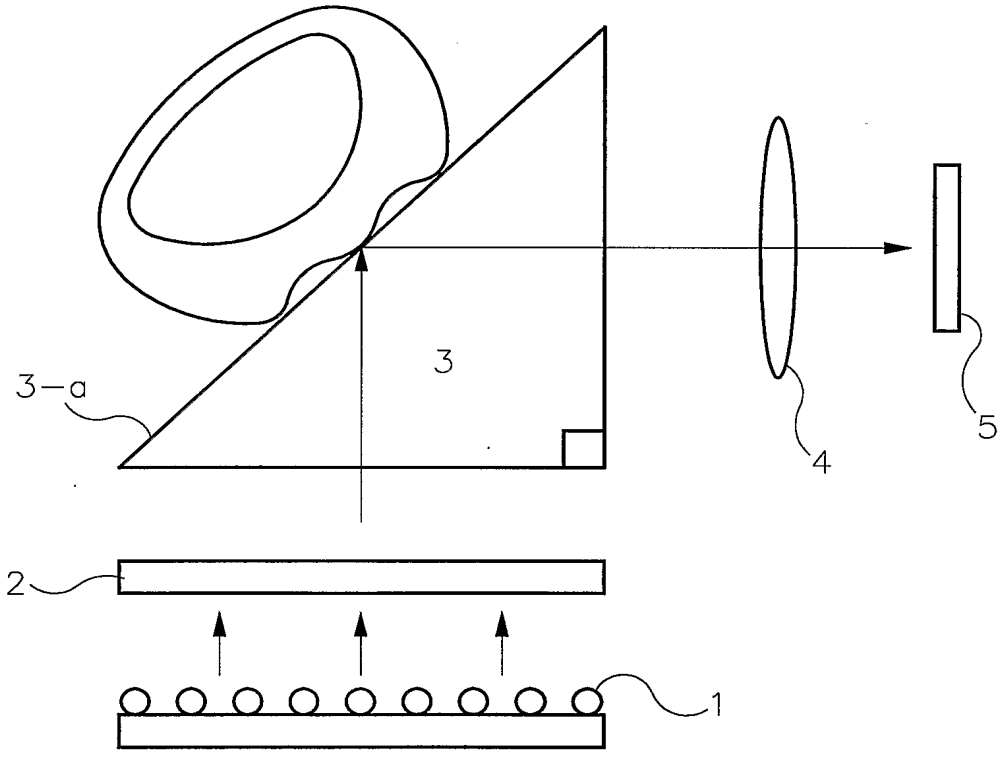


FIG.2

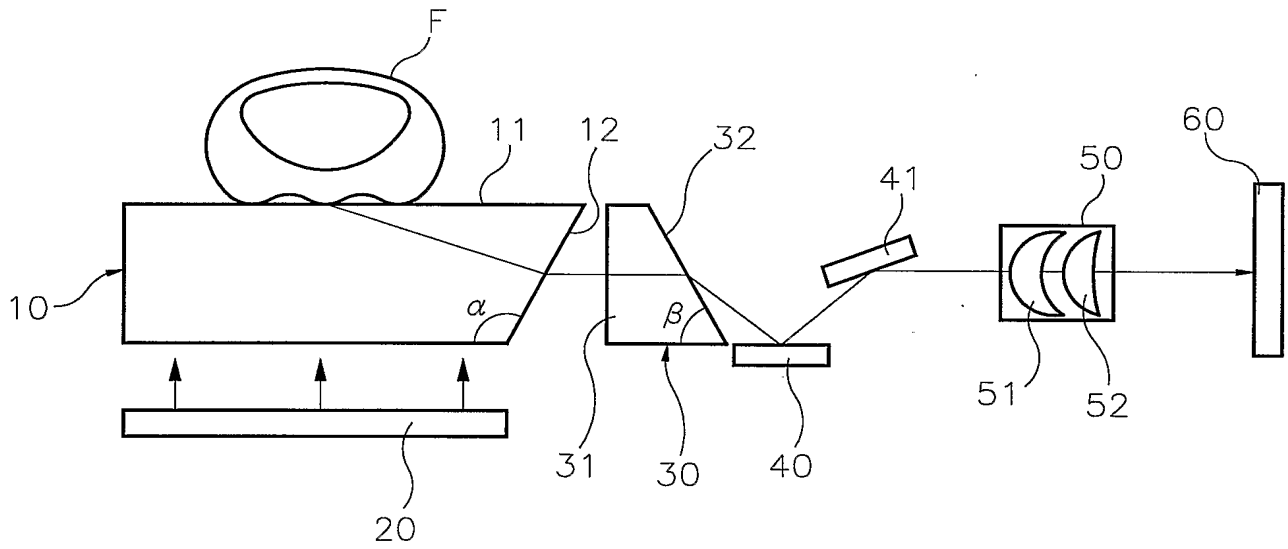
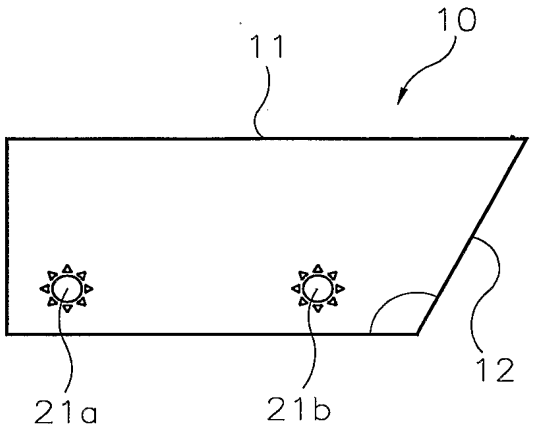


FIG.3

(a)



(b)

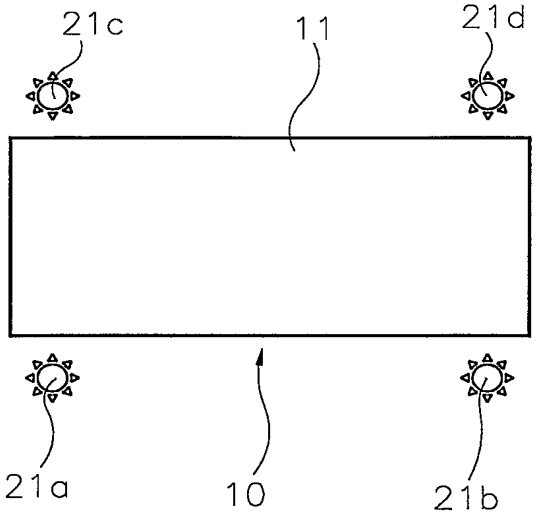


FIG.4

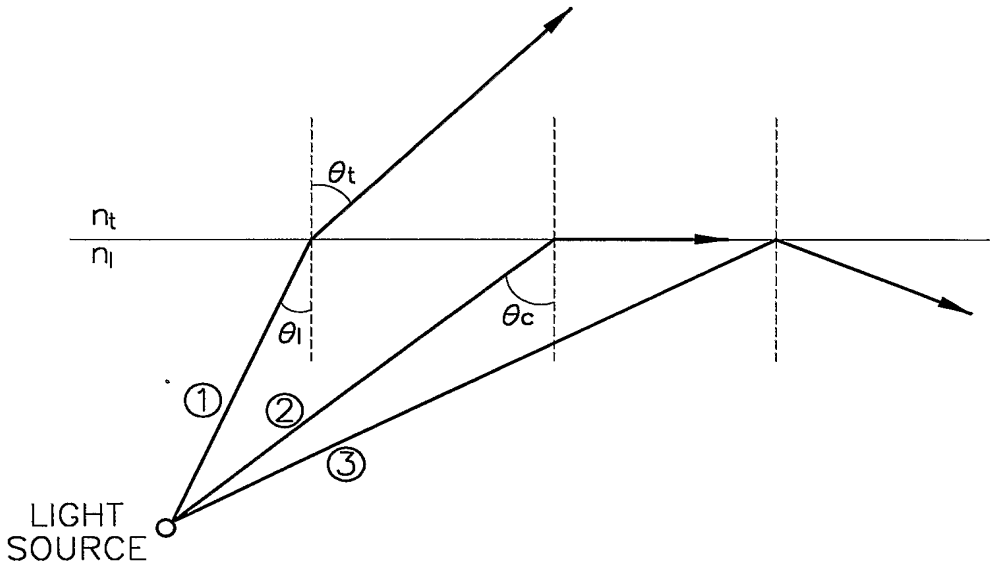


FIG.5

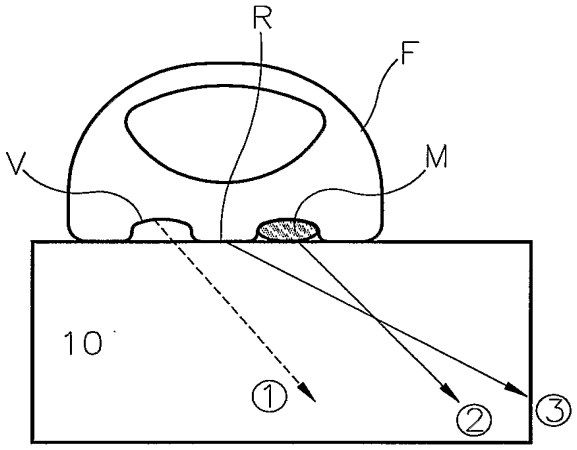


FIG.6

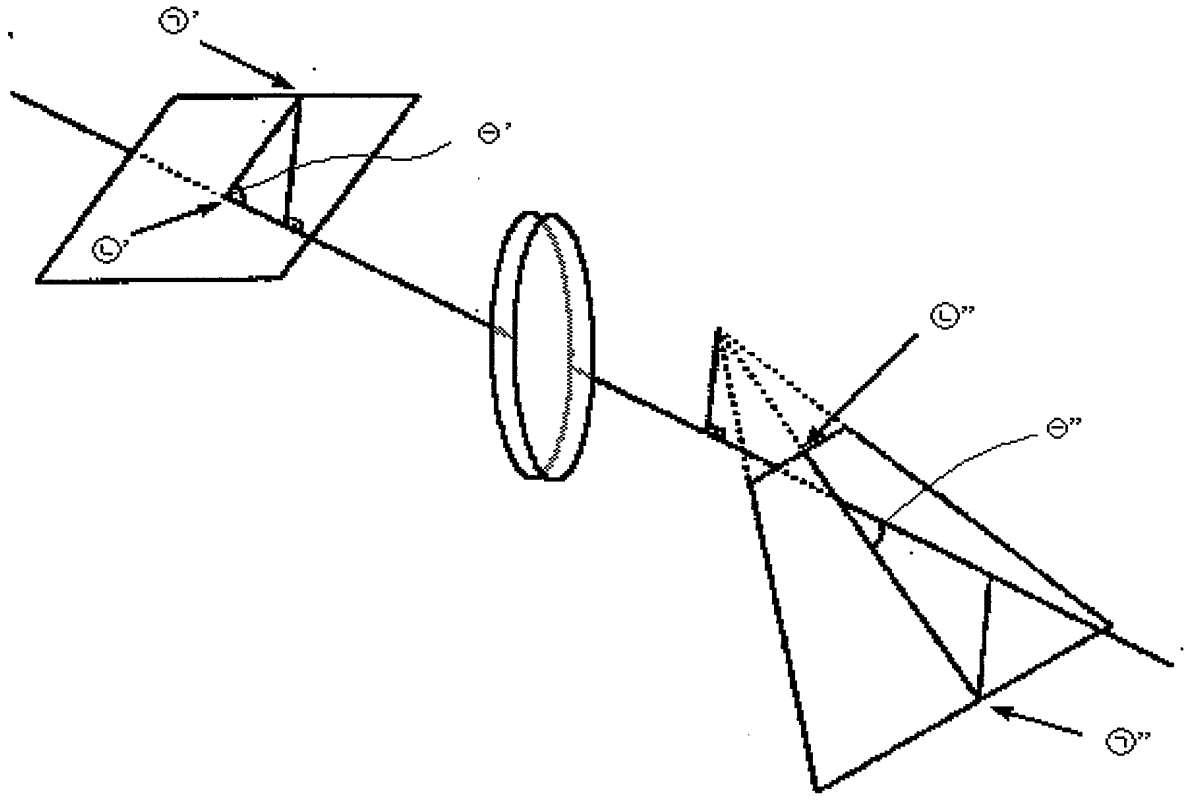


FIG.7

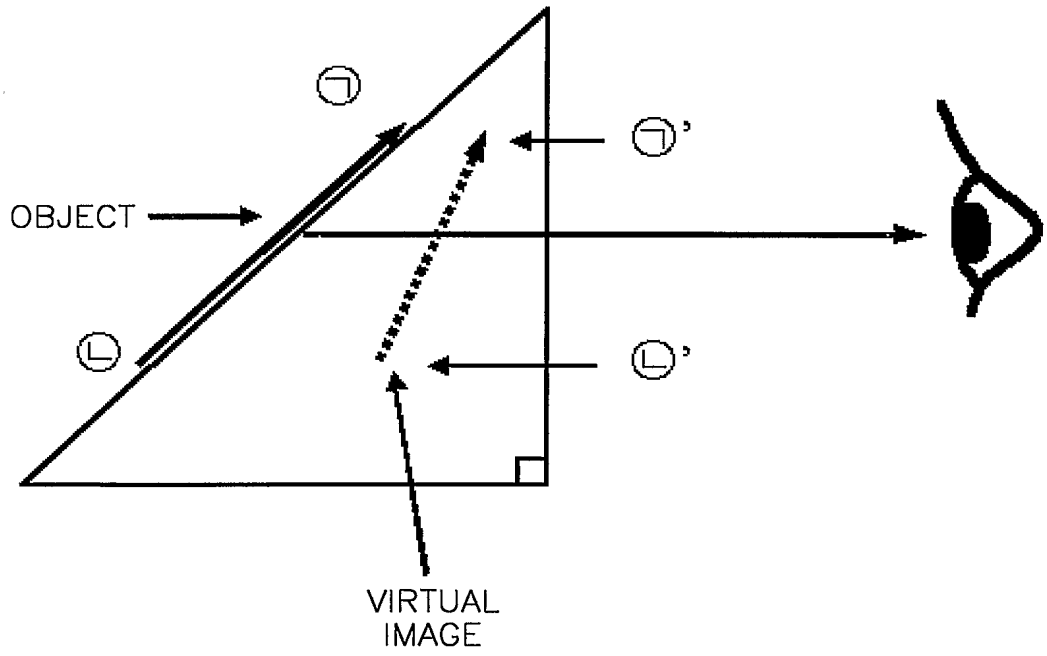
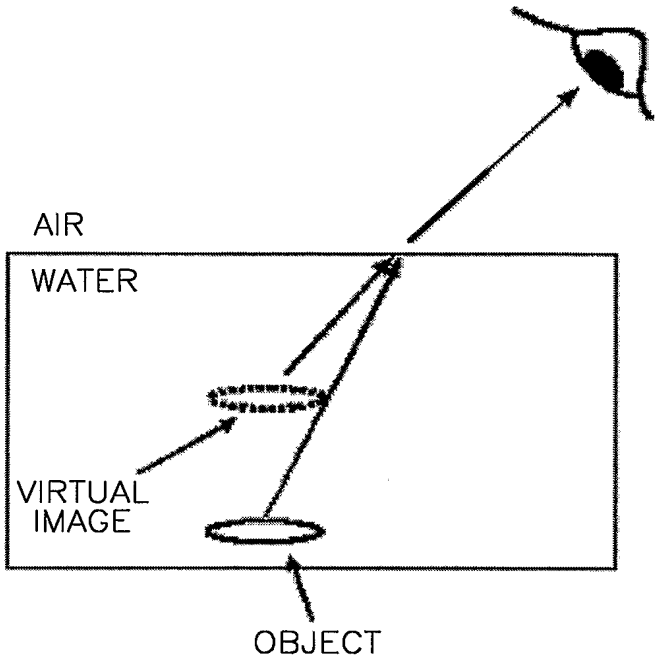


FIG.8

(a)


AIR
WATER
VIRTUAL IMAGE
OBJECT

(b)

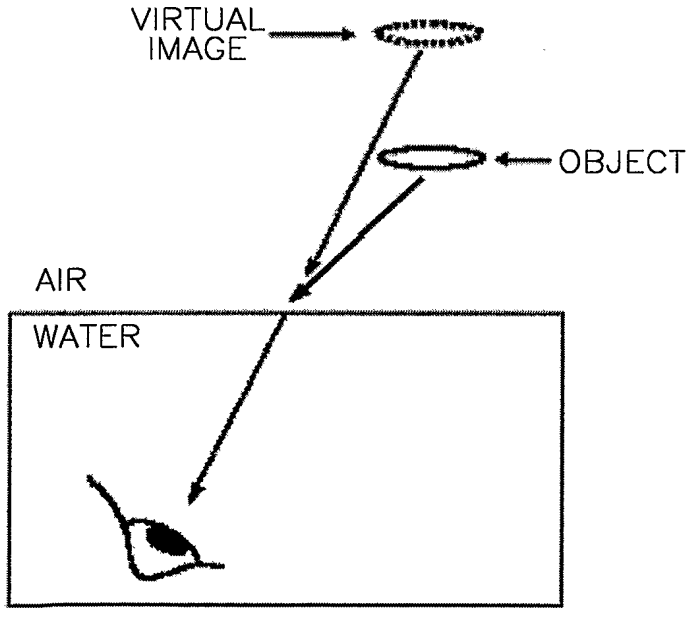

VIRTUAL IMAGE
OBJECT
AIR
WATER

FIG.9

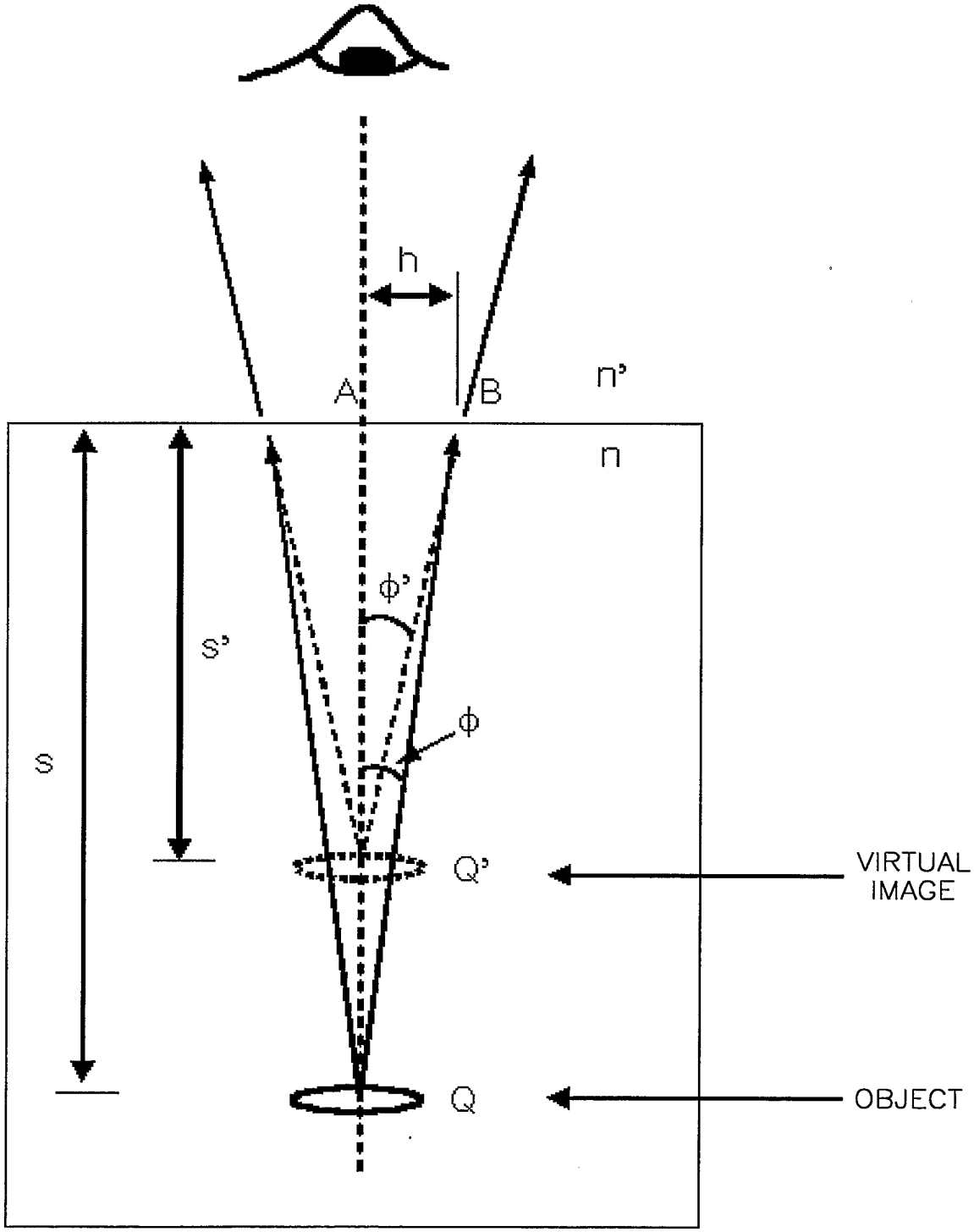


FIG.10

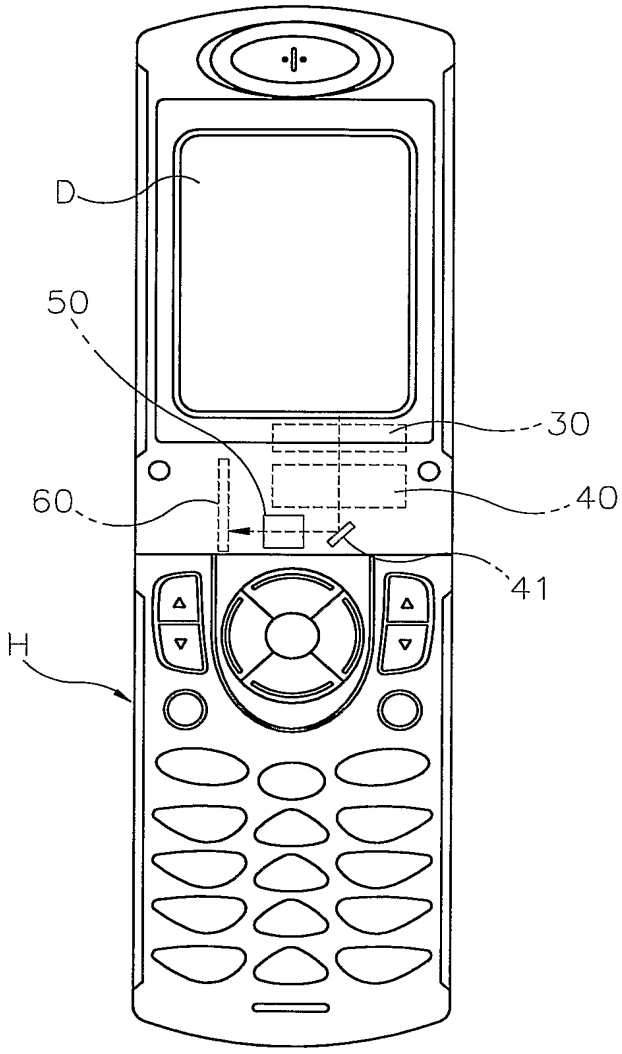
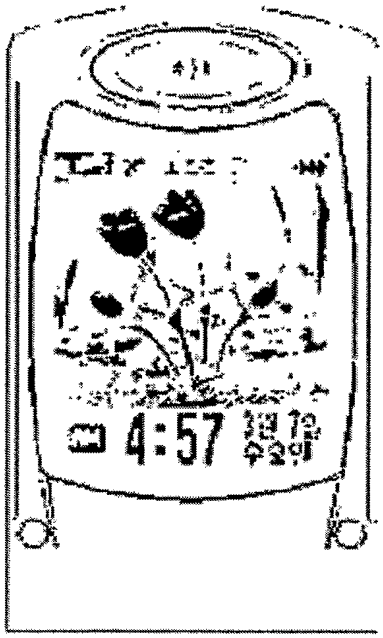


FIG.11

(a)



(b)

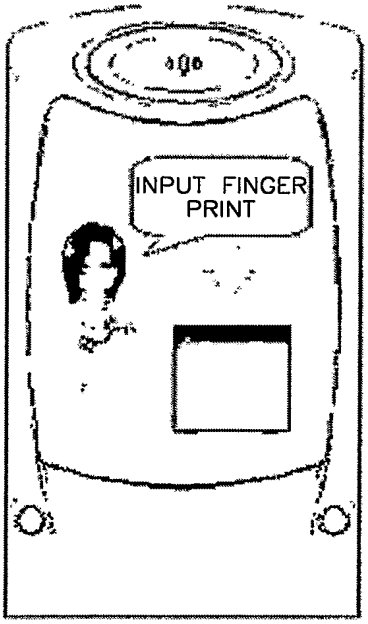
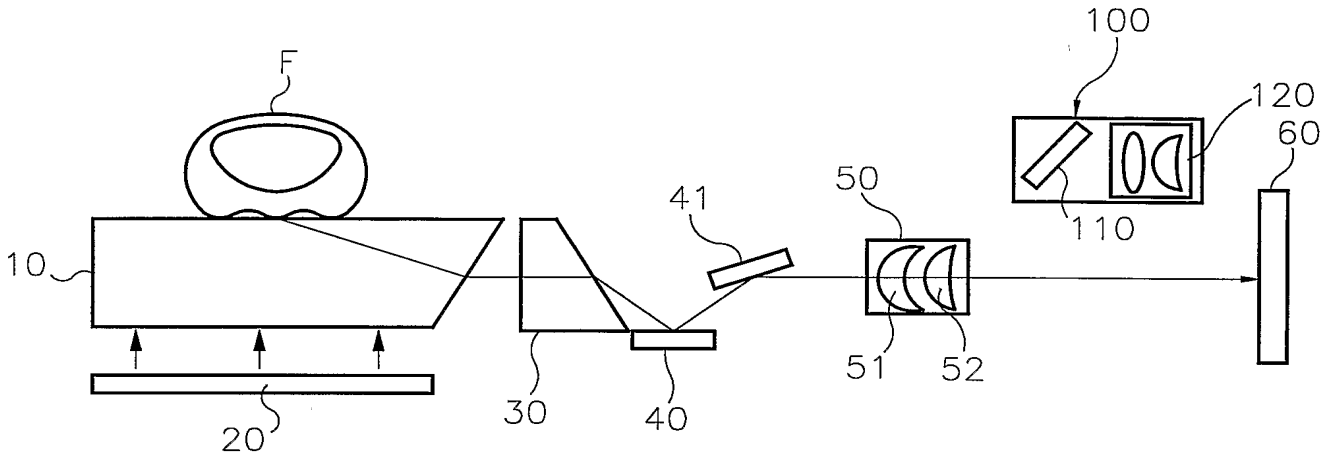
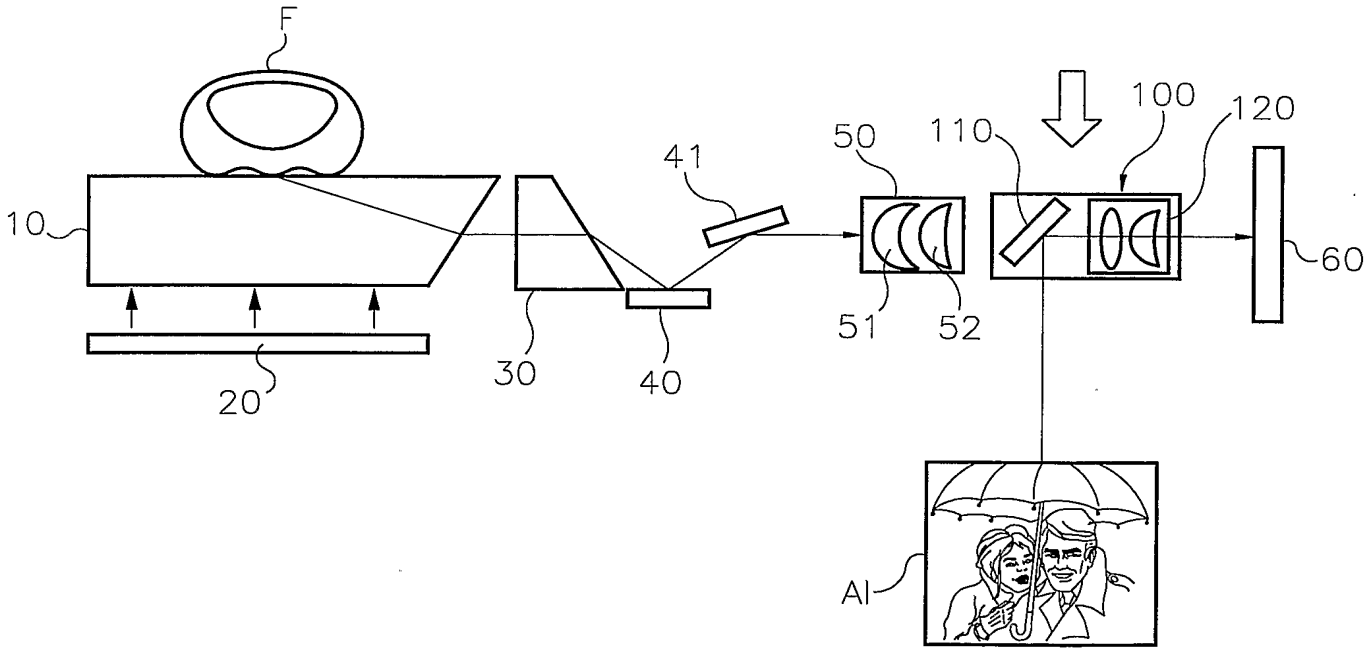


FIG.12

(a)


F
100
120
60
41
50
110
10
51
52
30
40
20

(b)


F
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AI

FIG.13

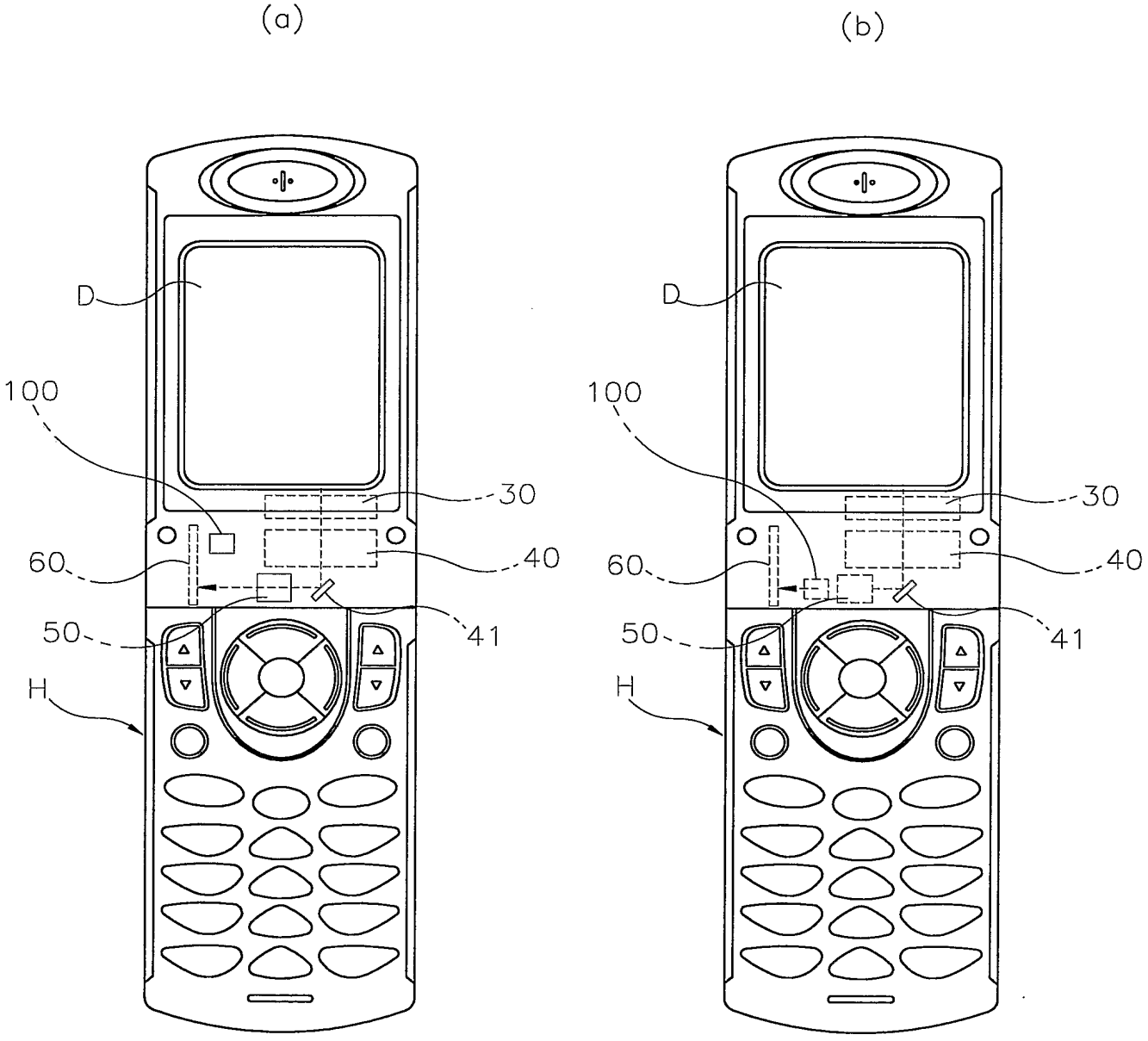
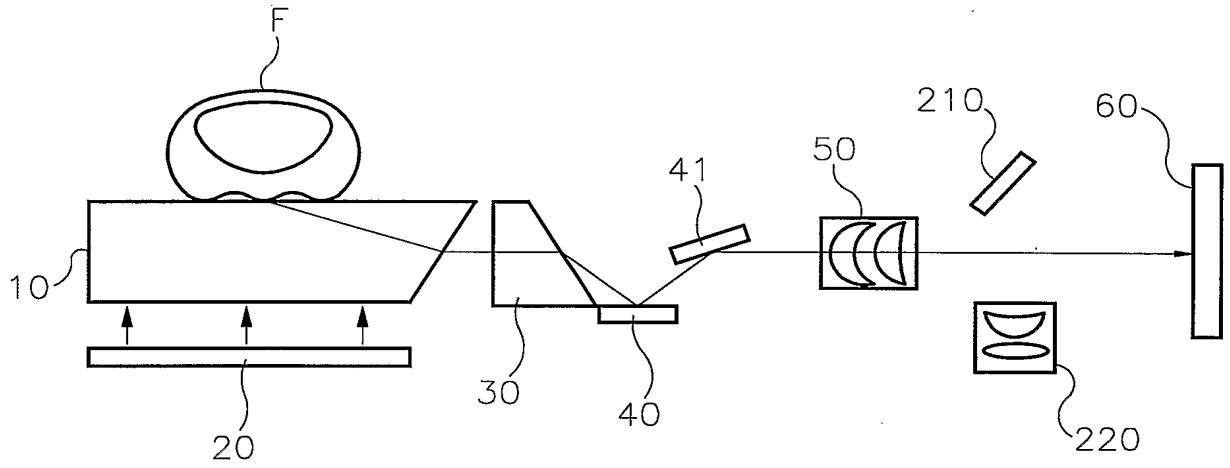
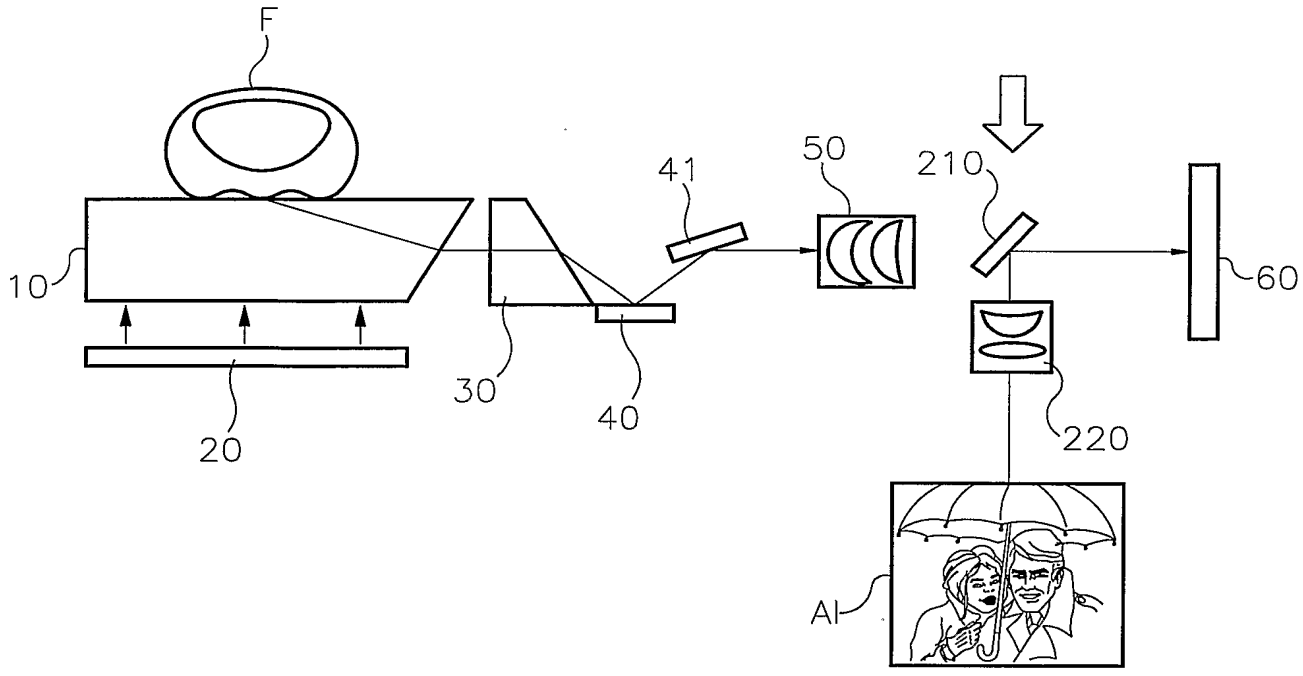


FIG.14

(a)



(b)